

## CLAIMS

What is claimed is:

- 1 1. A method of dynamically controlling release of information on a network, the  
2 method comprising:  
3       determining that protected information associated with a hand-held  
4 wireless communication device is needed or requested by a remote network  
5 entity; and  
6       enabling a user of the hand-held wireless communication device to  
7 dynamically control release of the protected information based on a result of said  
8 determining.
- 1 2. A method as recited in claim 1, wherein said enabling comprises using  
2 Hypertext Transport Protocol (HTTP) to communicate with the wireless device.
- 1 3. A method as recited in claim 1, wherein the protected information comprises  
2 presence information relating to the hand-held wireless communication device.
- 1 4. A method as recited in claim 1, wherein the protected information comprises  
2 location information relating to the hand-held wireless communication device.
- 1 5. A method as recited in claim 1, wherein the protected information comprises  
2 information identifying the hand-held wireless communication device or its user.
- 1 6. A method as recited in claim 1, wherein the remote network entity is a remote

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2 web-based application implemented on a wired network.

1 7. A method as recited in claim 1, wherein said enabling comprises presenting a  
2 user interface on the hand-held wireless communication device to enable the  
3 user to select from a plurality of options relating to release of the information.

1 8. A method as recited in claim 1, wherein said enabling comprises transmitting  
2 second information to the hand-held wireless communication device over a  
3 wireless network, the second information for use by the hand-held wireless  
4 communication device to present a user interface to enable the user to select from  
5 a plurality of options relating to release of the information.

1 9. A method as recited in claim 8, wherein said transmitting second information  
2 to the hand-held wireless communication device over a wireless network  
3 comprises transmitting the second information to the hand-held wireless  
4 communication device over a wireless network using Hypertext Transport  
5 Protocol (HTTP).

1 10. A hand-held wireless communication device comprising:  
2 a processor;  
3 a transceiver to communicate with a remote device over a wireless  
4 medium;  
5 an input control;  
6 an output device; and

7 a memory storing instructions which configure the processor to generate a  
8 user interface on the output device to enable a user to use the input control to  
9 dynamically control release of information associated with the hand-held  
10 wireless communication device to a remote application.

1 11. A hand-held wireless communication device as recited in claim 10, wherein  
2 the information comprises presence information relating to the hand-held  
3 wireless communication device.

1 12. A hand-held wireless communication device as recited in claim 10, wherein  
2 the information comprises location information relating to the hand-held  
3 wireless communication device.

1 13. A hand-held wireless communication device as recited in claim 10, wherein  
2 the protected information comprises information identifying the hand-held  
3 wireless communication device or its user.

1 14. A hand-held wireless communication device as recited in claim 10, wherein  
2 the remote application is a remote web-based application implemented on a  
3 wired network.

1 15. A hand-held wireless communication device as recited in claim 10, wherein  
2 the user interface enables the user to dynamically control release of the  
3 information in response to a request for the information.

1 16. A hand-held wireless communication device comprising:  
2 transceiver means for communicating with a remote device over a  
3 wireless medium; and  
4 user interface means for enabling a user to dynamically control release of  
5 information associated with the hand-held wireless communication device to a  
6 remote application.

1 17. A hand-held wireless communication device as recited in claim 16, wherein  
2 the information comprises presence information relating to the hand-held  
3 wireless communication device.

1 18. A hand-held wireless communication device as recited in claim 16, wherein  
2 the information comprises location information relating to the hand-held  
3 wireless communication device.

1 19. A hand-held wireless communication device as recited in claim 16, wherein  
2 the protected information comprises information identifying the hand-held  
3 wireless communication device or its user.

1 20. A hand-held wireless communication device as recited in claim 16, wherein  
2 the remote application is a remote web-based application implemented on a  
3 wired network.

1 21. A hand-held wireless communication device as recited in claim 16, wherein

2 the user interface means comprises means for enabling the user to dynamically  
3 control release of the information in response to a request for the information.

1 22. A machine readable program storage medium for use in a wireless hand-  
2 held communications device, the storage medium storing sequences of  
3 instructions, which when executed on the hand-held communications device,  
4 cause the hand-held communications device to generate a user interface on a  
5 display device of the hand-held communications device, to enable a user of the  
6 hand-held communications device to use an input control of the hand-held  
7 communications device to dynamically control release of information associated  
8 with the hand-held wireless communication device to a remote application, in  
9 response to a request for the information.

1 23. A machine readable program storage medium as recited in claim 22, wherein  
2 the information comprises presence information relating to the hand-held  
3 wireless communication device.

1 24. A machine readable program storage medium as recited in claim 22, wherein  
2 the information comprises location information relating to the hand-held  
3 wireless communication device.

1 25. A machine readable program storage medium as recited in claim 22, wherein  
2 the protected information comprises information identifying the hand-held  
3 wireless communication device or its user.

1 26. A method of dynamically controlling release of information on a network,  
2 the method comprising:  
3 determining that protected information associated with a remote, hand-  
4 held wireless communication device is needed or requested by another network  
5 entity;  
6 communicating with the hand-held wireless communication device to  
7 allow a user of the hand hand-held wireless communication device to  
8 dynamically control release of the protected information; and  
9 releasing the protected information according to a result of said  
10 communicating.

1 27. A method as recited in claim 26, wherein said communicating comprises  
2 using Hypertext Transport Protocol (HTTP) to communicate with the hand-held  
3 wireless communication device.

1 28. A method as recited in claim 26, wherein the protected information  
2 comprises presence information relating to the hand-held wireless  
3 communication device.

1 29. A method as recited in claim 26, wherein the protected information  
2 comprises location information relating to the hand-held wireless  
3 communication device.

1 30. A method as recited in claim 26, wherein the protected information

2 comprises information identifying the hand-held wireless communication device  
3 or its user.

1 31. A method as recited in claim 26, further comprising operating as a proxy  
2 between the hand hand-held wireless communication device and remote  
3 applications.

1 32. A method as recited in claim 26, further comprising providing a gateway to  
2 interface a wireless network on which the hand hand-held wireless  
3 communication device operates with a wired network.

1 33. A method as recited in claim 26, further comprising:  
2 operating as a proxy between the hand hand-held wireless  
3 communication device and remote applications; and  
4 providing a gateway to interface a wireless network on which the hand  
5 hand-held wireless communication device operates with a wired network.

1 34. A method as recited in claim 26, wherein the network entity is a remote web-  
2 based application implemented on a wired network.

1 35. A method as recited in claim 26, wherein said communicating with the hand-  
2 held wireless communication device comprises transmitting second information  
3 to the hand-held wireless communication device over a wireless network, the  
4 second information for use by the hand-held wireless communication device to

5 present a user interface to enable the user to select from a plurality of options  
6 relating to release of the information.

1 36. A method as recited in claim 26, wherein said determining that protected  
2 information associated with a remote, hand-held wireless communication device  
3 is needed by another network entity comprises  
4 intercepting a request to the network entity from the hand-held wireless  
5 communication device.

1 37. A method as recited in claim 26, wherein said determining that protected  
2 information associated with a remote, hand-held wireless communication device  
3 is needed by another network entity comprises  
4 receiving a request for said information from the network entity.

1 38. A method as recited in claim 26, wherein said determining that protected  
2 information associated with a remote, hand-held wireless communication device  
3 is needed by another network entity comprises  
4 receiving a communication from the network entity, wherein the  
5 communication from the network entity is responsive to a request from the  
6 hand-held wireless communication device to the network entity.

1 39. A method of dynamically controlling release of information on a network,  
2 the method comprising:  
3 receiving a communication from a remote application on a wired network,



the communication responsive to a prior request sent by a hand-held wireless client device on a wireless network to the remote server;

determining, in response to the communication, that information associated with the hand-held wireless client device is needed to fulfill the request;

communicating with the hand-held wireless client device to allow a user of the wireless device to dynamically control release of the information; and

releasing the information to the remote application according to a result of said communicating.

40. A method as recited in claim 39, wherein said communicating comprises using Hypertext Transport Protocol (HTTP) to communicate with the hand-held wireless client device.

41. A method as recited in claim 39, wherein said communicating with the hand-held wireless client device comprises transmitting second information to the hand-held wireless client device over the wireless network, the second information for use by the hand-held wireless client device to present a user interface to enable the user to select from a plurality of options relating to release of the information.

42. A method of dynamically controlling release of information on a network,  
the method comprising:

intercepting a request sent from a hand-held wireless client device over a wireless network, the request directed to a remote application on a wired network;

determining whether information associated with the hand-held wireless client device is needed to fulfill the request;

if said information is required to fulfill the request, communicating with the hand-held wireless client device to allow a user of the hand-held wireless client device to dynamically control release of the information; and

releasing the information to the remote server according to a result of said communicating.

43. A method as recited in claim 42, wherein said communicating with the hand-held wireless client device comprises using Hypertext Transport Protocol (HTTP) to communicate with the hand-held wireless client device.

44. A method as recited in claim 42, wherein said communicating with the hand-held wireless client device comprises transmitting second information to the hand-held wireless client device over the wireless network, the second information for use by the hand-held wireless client device to present a user interface to enable the user to select from a plurality of options relating to release of the information.

45. A processing system comprising:

2 a data communication device;  
3 a processor; and  
4 a memory storing instructions executable by the processor to cause the  
5 processing system to execute a process comprising:  
6 determining that protected information associated with a remote,  
7 hand-held wireless communication device is needed or requested by another  
8 network entity;  
9 communicating with the hand-held wireless communication  
10 device, using the data communication device, to allow a user of the hand hand-  
11 held wireless communication device to dynamically control release of the  
12 protected information; and  
13 releasing the protected information according to a result of said  
14 communicating.

1 46. A processing system as recited in claim 45, wherein the protected  
2 information comprises presence information relating to the hand-held wireless  
3 communication device.

1 47. A processing system as recited in claim 45, wherein the protected  
2 information comprises location information relating to the hand-held wireless  
3 communication device.

1 48. A processing system as recited in claim 45, further comprising a proxy server

2 to operate as a proxy between the hand hand-held wireless communication  
3 device and remote applications.

1 49. A processing system as recited in claim 45, further comprising a gateway to  
2 interface a wireless network on which the hand hand-held wireless  
3 communication device operates with a wired network.

1 50. A processing system as recited in claim 45, further comprising:  
2 a proxy server to operate as a proxy between the hand hand-held wireless  
3 communication device and remote applications; and  
4 a gateway to connect a wireless network on which the hand hand-held  
5 wireless communication device operates with a wired network.

1 51. A processing system as recited in claim 45, wherein the network entity is a  
2 remote web-based application implemented on a wired network.

1 52. A processing system as recited in claim 45, wherein said communicating  
2 with the hand-held wireless communication device comprises transmitting  
3 second information to the hand-held wireless communication device over a  
4 wireless network, the second information for use by the hand-held wireless  
5 communication device to present a user interface to enable the user to select from  
6 a plurality of options relating to release of the information.

1 53. A processing system as recited in claim 45, wherein said determining that

2 protected information associated with a remote, hand-held wireless  
3 communication device is needed by another network entity comprises  
4 intercepting a request to the network entity from the hand-held wireless  
5 communication device.

1 54. A processing system as recited in claim 45, wherein said determining that  
2 protected information associated with a remote, hand-held wireless  
3 communication device is needed by another network entity comprises  
4 receiving a request for said information from the network entity.

1 55. A processing system as recited in claim 45, wherein said determining that  
2 protected information associated with a remote, hand-held wireless  
3 communication device is needed by another network entity comprises  
4 receiving a communication from the network entity, wherein the  
5 communication from the network entity is responsive to a request from the  
6 hand-held wireless communication device to the network entity.

1 56. A machine readable program storage medium storing sequences of  
2 instructions, which when executed on a processing system, cause the processing  
3 system to perform a method comprising:  
4 determining that protected information associated with a remote, hand-  
5 held wireless communication device is needed or requested by another network  
6 entity;

communicating with the hand-held wireless communication device, using  
the data communication device, to allow a user of the hand hand-held wireless  
communication device to dynamically control release of the protected  
information; and  
releasing the protected information according to a result of said  
communicating.

57. A machine readable program storage medium as recited in claim 56, wherein  
the network entity is a remote web-based application implemented on a wired  
network.

58. A machine readable program storage medium as recited in claim 56, wherein  
said communicating with the hand-held wireless communication device  
comprises transmitting second information to the hand-held wireless  
communication device over a wireless network, the second information for use  
by the hand-held wireless communication device to present a user interface to  
enable the user to select from a plurality of options relating to release of the  
information.

59. A machine readable program storage medium as recited in claim 56, wherein  
said determining that protected information associated with a remote, hand-held  
wireless communication device is needed by another network entity comprises  
intercepting a request to the network entity from the hand-held wireless

5 communication device.

1 60. A machine readable program storage medium as recited in claim 56, wherein  
2 said determining that protected information associated with a remote, hand-held  
3 wireless communication device is needed by another network entity comprises  
4 receiving a request for said information from the network entity.

1 61. A machine readable program storage medium as recited in claim 56, wherein  
2 said determining that protected information associated with a remote, hand-held  
3 wireless communication device is needed by another network entity comprises  
4 receiving a communication from the network entity, wherein the  
5 communication from the network entity is responsive to a request from the  
6 hand-held wireless communication device to the network entity.